

I claim:

1           1. A method of manufacturing a polyethylene  
2   terephthalate packaging web comprising the steps of:

3           (a) subjecting a polyethylene terephthalate raw  
4   material to plastification in a twin-screw extruder and extruding  
5   a polyethylene terephthalate melt from said extruder;

6           (b) degassing an interior of said extruder during the  
7   extrusion of the polyethylene terephthalate melt therefrom;

8           (c) outputting a strip of said polyethylene  
9   terephthalate melt from a spinning head located downstream of  
10   said extruder; and

11           (d) cooling and stretching said strip of said  
12   polyethylene terephthalate to form said polyethylene  
13   terephthalate packaging web.

1           2. The method defined in claim 1 wherein said raw  
2   material is at least in part PET flakes form by comminuting PET  
3   bottles.

1           3. The method defined in claim 1 wherein said raw  
2   material is supplied to said extruder with at least one metering  
3   screw.

1           4. The method defined in claim 3 wherein said metering  
2 screw supplied said raw material to said extruder such that  
3 flights of the extruder screws are filled only to 25% to 60% with  
4 the polyethylene terephthalate raw material.

1           5. The method defined in claim 4 wherein the flights  
2 of the extruder screws are filled to 30% to 50% with the  
3 polyethylene terephthalate raw material.

1           6. The method defined in claim 1 wherein the screws of  
2 the extruder are driven in the same sense.

1           7. The method defined in claim 1 wherein the interior  
2 of said extruder is degassed by connecting at least one suction  
3 pump thereto.

1           8. The method defined in claim 1, further comprising  
2 the step of feeding at least one chain-lengthening substance to  
3 said interior of said extruder.

1           9. The method defined in claim 8 wherein said chain-  
2 lengthening substance is a lactam or an oxazole derivative.

1           10. The method defined in claim 1, further comprising  
2 the steps of:  
3           passing said melt through a sieve filter;  
4           measuring melt pressure up flights of the extruder  
5 screws are filled only to 25% to 60% with the polyethylene  
6 terephthalate raw material stream and downstream of said sieve  
7 filter; and  
8           controlling a rotary speed of the screws of said  
9 extruder in accordance with the measured melt pressures.

1           11. The method defined in claim 1 wherein said melt is  
2 fed to said head with at least one melt pump.

1           12. The method defined in claim 1 wherein said strip  
2 is cooled in a liquid.

1           13. Th method defined in claim 12 wherein said liquid  
2 is a water bath.